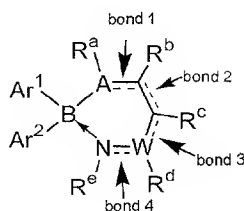


# WHAT WE CLAIM IS:

1. A compound of the formula



or a pharmaceutically acceptable salt thereof,

wherein A is N, O or S;

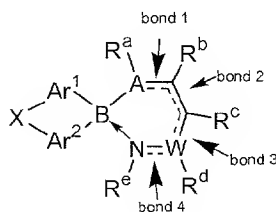
W is C<sub>p</sub>, where p is 0 or 1;

R<sup>a</sup>, R<sup>b</sup>, R<sup>c</sup>, R<sup>d</sup>, and R<sup>e</sup> are the same or different and are independently hydrogen, halogen, nitro, nitroso, lower alkyl, aryl or substituted aryl, lower alkoxy, lower alkoxyalkyl, or cycloalkyl or cycloalkyl alkoxy, where each cycloalkyl group has from 3-7 members, where up to two of the cycloalkyl members are optionally hetero atoms selected from sulfur, oxygen and nitrogen, and where any member of the alkyl, aryl or cycloalkyl group is optionally substituted with halogen, lower alkyl or lower alkoxy, aryl or substituted aryl, halogen, nitro, nitroso, aldehyde, carboxylic acid, amide, ester, or sulfate, or wherein R<sup>a</sup>, R<sup>b</sup>, R<sup>c</sup>, R<sup>d</sup>, and R<sup>e</sup> may be connected by aromatic, aliphatic, heteroaromatic, heteroaliphatic ring structures or substituted embodiments thereof, where R<sup>a</sup> is absent when A is O or S and R<sup>d</sup> is absent when p = 0; and

wherein Ar<sup>1</sup> and Ar<sup>2</sup> can be the same or different and are each independently aryl or aryl substituted at one or a plurality of positions with halogen, nitro, nitroso, lower alkyl, aryl or substituted aryl, lower alkoxy, lower alkoxyalkyl, or cycloalkyl or cycloalkyl alkoxy, where each cycloalkyl group has from 3-7 members, where up to two of the cycloalkyl members are optionally hetero atoms selected from sulfur, oxygen and nitrogen, and where any member of the alkyl, aryl or cycloalkyl group is optionally substituted with

halogen, lower alkyl or lower alkoxy, aryl or substituted aryl, halogen, nitro, nitroso, aldehyde, carboxylic acid, amide, ester, or sulfate, and

optionally Ar1 and Ar2 maybe cojoined to create a tricyclic scaffold, where X = C=O, CHOH, (CH<sub>2</sub>)<sub>n</sub> (n = 0 to 2), -CH=CH-, NR<sup>f</sup> (R<sup>f</sup> = H, C<sub>1</sub>-C<sub>4</sub> alkyl, phenyl, thienyl, or pyridyl), O, SO<sub>n</sub> (n = 0 to 2), which have a plurality of positions with halogen, nitro, nitroso, lower alkyl, aryl or substituted aryl, lower alkoxy, lower alkoxyalkyl, or cycloalkyl or cycloalkyl alkoxy, where each cycloalkyl group has from 3-7 members, where up to two of the cycloalkyl members are optionally hetero atoms selected from sulfur, oxygen and nitrogen, and



wherein bond 1, bond 2, bond 3 and bond 4 are independently a single bond or a double bond, provided that when A is S or O, bond 1 is a single bond and where A is N, bond 1 is a double bond.

2. A compound according to claim 1, selected from di-(4-fluorophenyl)borinic acid 8-hydroxyquinoline ester, di-(4-chlorophenyl)borinic acid 8-hydroxyquinoline ester, di-(3-chlorophenyl)borinic acid 8-hydroxyquinoline ester, di-(4-chloro-2-fluorophenyl)borinic acid 8-hydroxyquinoline ester, di-(3,4-methylenedioxyphenyl)borinic acid 8-hydroxyquinoline ester, di-(4-methoxyphenyl)borinic acid 8-hydroxyquinoline ester, di-(2-thienyl)borinic acid 8-hydroxyquinoline ester, di-(p-fluorophenyl)borinic acid 8-hydroxyquinoline ester, di-(p-chlorophenyl)borinic acid 8-hydroxyquinoline ester, di-(4-methoxyphenyl)borinic acid 8-hydroxyquinoline ester, di-(p-fluorophenyl)borinic acid 5-chloro-8-hydroxyquinoline ester, di-(p-chlorophenyl)borinic acid 5-chloro-8-hydroxyquinoline ester, di-(3,4-methylenedioxyphenyl) borinic acid 5-chloro-8-hydroxyquinoline ester, di-(4-methoxyphenyl)borinic acid 5-chloro-8-hydroxyquinoline ester, di-(3,4-methylenedioxyphenyl)borinic acid 8-hydroxy-5-

nitroquinoline ester, diphenylborinic acid 2-aminophenol, diphenylborinic acid pyridine-2-methanol, diphenylborinic acid 2-amino-1-phenylpropanol, diphenylborinic acid (S)-(+)-pyrrolidine-2-methanol, di-(4-fluorophenyl)borinic acid ethanolamine ester, and di-(4-chlorophenyl)borinic acid ethanolamine ester.

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3. A pharmaceutical composition comprising a compound according to Claim 1 combined with at least one pharmaceutically acceptable carrier or excipient.

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4. A method for the treatment of a disease or disorder associated with infection with a pathogenic bacteria that expresses an adenine DNA methyltransferase, said method comprising administering to a patient in need of such treatment a therapeutically-effective amount of a compound of Claim 1.

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5. A method according to Claim 4 wherein the disease or disorder associated infection with a pathogenic bacteria is *Staphylococcus aureus*; *Staphylococcus saprophyticus*; *Streptococcus pyrogenes*; *Streptococcus agalactiae*; *Streptococcus pneumoniae*; *Bacillus anthracis*; *Corynebacterium diphtheria*; *Clostridium perfringens*; *Clostridium botulinum*; *Clostridium tetani*; *Neisseria gonorrhoeae*; *Neisseria meningitidis*; *Pseudomonas aeruginosa*; *Legionella pneumophila*; *Escherichia coli*; *Yersinia pestis*; *Hemophilus influenzae*; *Helicobacter pylori*; *Campylobacter fetus*; *Vibrio cholerae*; *Vibrio parahemolyticus*; *Trepomena pallidum*; *Actinomyces israelii*; *Rickettsia prowazekii*; *Rickettsia rickettsii*; *Chlamydia trachomatis*; *Chlamydia psittaci*; *Brucella abortus* or *Agrobacterium tumefaciens*.

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6. A method for the treatment of a disease or disorder associated with infection with a pathogenic bacteria that expresses an adenine DNA methyltransferase, said method comprising administering to a patient in need of such treatment a therapeutically-effective amount of the pharmaceutical composition of Claim 3.

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7. A method according to Claim 6 wherein the disease or disorder associated infection with a pathogenic bacteria is *Staphylococcus aureus*;

5 *Staphylococcus saprophyticus*; *Streptococcus pyrogenes*; *Streptococcus agalactiae*; *Streptococcus pneumoniae*; *Bacillus anthracis*; *Corynebacterium diphtheria*; *Clostridium perfringens*; *Clostridium botulinum*; *Clostridium tetani*; *Neisseria gonorrhoeae*; *Neisseria meningitidis*; *Pseudomonas aeruginosa*; *Legionella pneumophila*; *Escherichia coli*; *Yersinia pestis*; *Hemophilus influenzae*; *Helicobacter pylori*; *Campylobacter fetus*; *Vibrio cholerae*; *Vibrio parahaemolyticus*; *Treponema pallidum*; *Actinomyces israelii*; *Rickettsia prowazekii*; *Rickettsia rickettsii*; *Chlamydia trachomatis*; *Chlamydia psittaci*; *Brucella abortus* or *Agrobacterium tumefaciens*.

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8. A combinatorial library comprising a multiplicity of compounds according to claim 1.

15 9. A packaged pharmaceutical composition comprising the pharmaceutical composition of Claim 3 in a container and instructions for using the composition to treat a patient suffering from a disease or disorder associated with infection with a pathogenic bacterium.